

ABSTRACT OF THE DISCLOSURE

A fluorine gas generator is provided with which the gases used and/or generated, in case of leakage thereof, can be prevented from mixing together as far as possible and, even in case of gas leakage into the outside of the generator system, the leakage gas can be treated safely and in which the maintenance, exchange and other operations are easy to carry out. The generator comprises a box-shaped body containing an electrolyzer for fluorine gas generation, and the box-shaped body is divided into two or more compartments, including a compartment containing the electrolyzer.

Elected Drawing: Fig. 1.

[Description of the Reference Numbers]

1Electrolyzer

- 2 Electrolytic bath
- 3 Anode chamber
- 4 Cathode chamber
- 5 Anode
- 6 Cathode
- 12 Water heating device
- 13 Warm water jacket
- 14 HF adsorption column system (second adsorption means)
- 14a HF adsorption column
- 14b HF adsorption column
- 15 HF adsorption column system (first adsorption means)
- 15a HF adsorption column
- 15b HF adsorption column
- 20 Buffer tank (reservoir means)
- 21 Compressor (pressurizing means)
- 22 Discharge port for the fluorine gas
- 23 Discharge port for the hydrogen gas
- 24 HF feeding line
- 25 HF inlet
- 45 Transporting member
- 46 Transporting member
- 47 Transporting member
- 100 Box-shaped body
- 101 First compartment
- 102 Second compartment
- 103 Third compartment